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500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME OF  
PRIME CONTRACT AMR. (U) WASHINGTON HEADQUARTERS  
SERVICES (DOD) DC DIRECTORATE FOR INF. 1977

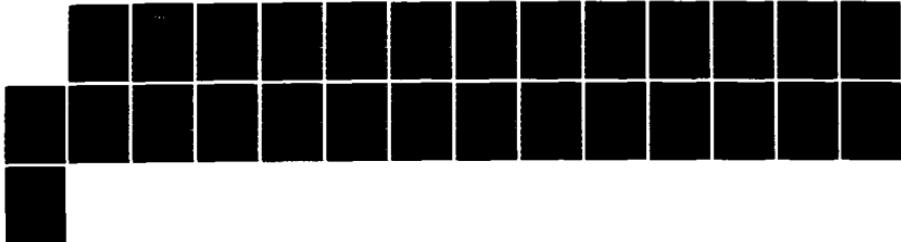
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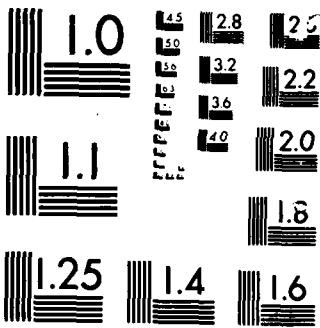
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# 500 CONTRACTORS

CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME  
OF ~~MEETED~~ PRIME CONTRACT AWARDS FOR RDT&E

**FISCAL YEAR 1977**

DEPARTMENT OF DEFENSE  
WASHINGTON HEADQUARTERS SERVICES  
DIRECTORATE FOR INFORMATION OPERATIONS  
AND REPORTS

500 CONTRACTORS LISTED ACCORDING TO NET VALUE OF  
MILITARY PRIME CONTRACT AWARDS FOR RESEARCH,  
DEVELOPMENT, TEST, AND EVALUATION WORK

FISCAL YEAR 1977

This report lists the leading 500 military prime contractors according to the net value of awards over \$10,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year 1977. This list is arranged in four sections. The first section includes 386 U. S. business firms, the second includes 104 educational and other nonprofit institutions, the third includes 3 foreign contractors, and the fourth includes 7 U. S. Government agencies. There are 93 contractors on the Fiscal Year 1977 list who did not appear on the Fiscal Year 1976 list. Of the 386 U. S. business firms listed, 194 were small business firms.

Contractors in all sections are ranked in a single sequence so that only one contractor in the report is No. 1. The alphabetical index shows the section in which each contractor is located and his rank. The locations shown are those where the work was expected to be performed. Generally, the location is a contractor's plant, laboratory, or other facility. However, if the work was scheduled to be performed at a Defense activity, such as an Air Force Base, the location is the Defense activity rather than the contractor's plant.

In addition to the 500 listed contractors, there were 1,398 other contractors who were awarded prime contracts over \$10,000 for RDT&E work during Fiscal Year 1977, making a total of 1,898 contractors in all compared with 1,816 contractors during Fiscal Year 1976. Included in the Fiscal Year 1977 total were 290 educational and other nonprofit institutions, 28 foreign contractors, 11 U. S. Government agencies, and 1,569 U. S. business firms (1,076 small and 493 large business firms).

The dollar value of \$7,751 million for the 500 largest contractors represents 98.2 percent of the \$7,893 million total prime contract awards of \$10,000 or more for RDT&E work. The contractors with the largest value of awards were engaged in research, development, test, or evaluation of missile and space systems, electronic and communications equipment, aircraft, and other highly complex military equipment. In Fiscal Year 1977, 72.7 percent of all RDT&E awards of \$10,000 or more to U. S. business firms was for work connected with missile and space systems, electronic and communications equipment, and aircraft programs.

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Washington Headquarters Services  
Directorate for Information  
Operations and Reports

May 24, 1978

INDEX OF 500 LARGEST MILITARY  
PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,  
TEST AND EVALUATION WORK

FISCAL YEAR 1977

RANK LIST	CONTRACTOR	RANK LIST	CONTRACTOR
138 B	A A I CORP	75 N	BATTELLE MEMORIAL INSTITUTE
173 B	A E L SERVICE CCP	318 E	BEECH AIRCRAFT CORP
161 B	ACUREX CORP	48 B	BENDIX CORP
327 B	ADAPTO INC	160 E	BENDIX FIELD ENGINEERING CORP
291 B	ADVANCED TECHNOLOGY INC	430 E	BIO MED INC
317 B	AERODYNE RESEARCH INC	248 B	BIOMETRICS INC
465 B	AEROFLEX LABORATORIES INC	492 E	BIRD ENGINEERING RESEARCH ASSOC
32 B	AEROJET GENERAL CORP	5 E	BOEING CO
340 B	AERONAUTICAL RESEARCH ASSOCIATES	36 B	BOEING VERTOL CO
43 N	AEROSPACE CCP	86 B	BOLT BERANEK & NEWMAN INC
418 B	AGRABIAN ASSOCIATES	147 E	BOOZ ALLEN & HAMILTON INC
475 B	AIRESEARCH MFG CO OF ARIZONA	167 E	BOOZ ALLEN APPLIED RESEARCH INC
44 N	ALASKA UNIVERSITY OF	270 N	BOSTON COLLEGE
253 B	ALEXIQU CARSON CCP	363 N	BOSTON UNIVERSITY
235 B	ALL AMERICAN INDUSTRIES INC	428 N	BROWN UNIVERSITY
369 B	ALUMINUM CO OF AMERICA	282 E	BRUNSWICK CORP
245 B	AMERICAN AIRLINES INC	74 E	BUNKER RAMC CORP
54 B	AMERICAN BELL INTERNATIONAL INC	169 E	BURROUGHS CORP
491 B	AMERICAN COMMUNICATIONS CCP	193 E	CNA INC
419 B	AMERICAN ELECTRONIC LABS INC	196 E	CTEC
279 B	AMERICAN NUCLEONICS CORP	347 E	CACD.COM INC
335 N	AMERICAN UNIVERSITY	152 E	CAIRE CORP
320 B	AMPEX CORP	237 N	CALIFORNIA INSTITUTE OF TECHNOLOGY
436 B	ANALYSIS & COMPUTER SYSTEMS INC	422 E	CALIFORNIA RESEARCH & TECHNOLOGY
260 B	ANALYSIS & TECHNOLOGY INC	54 N	CALIFORNIA UNIVERSITY OF
107 B	ANALYTIC SCIENCES CORP	73 E	CALSPAN CORP
144 N	ANALYTIC SERVICES INC	93 E	CAMPBELL ALLEN M
210 B	ANALYTICAL SYSTEMS ENGR CCP	141 F	CANADIAN COMMERCIAL CORP
219 B	ANALYTICS INC	456 E	CANYON RESEARCH GROUP INC
412 B	APPLIED DATA RESEARCH INC	249 E	CAPTECH INC
351 B	APPLIED SCIENCE ASSOCIATES INC	151 N	CARNEGIE MELLON UNIVERSITY
264 B	ARES INC	415 N	CASE WESTERN RESERVE UNIVERSITY
350 B	ARGO SYSTEMS INC	308 N	CATHOLIC UNIVERSITY OF AMERICA
145 B	ARINC RESEARCH CCP	303 B	CELESCO INDUSTRIES
169 N	ARIZONA UNIVERSITY OF	332 B	CERBERONICS INC
19 B	ARO INC	181 B	CHARIERLAIN MFG CORP
174 B	ATLANTIC RESEARCH CORP	474 E	CHARLES EVANS CCP
738 N	AURORA UNIVERSITY	30 E	CHARLES STARK DRAPER LABS INC
201 B	AUERBACH ASSOCIATES INC	14 E	CHRYSLER CORP
251 B	AUSTIN RESEARCH ASSOCIATES INC	97 E	CINCINNATI ELECTRONICS CORP
41 B	AUTOMATION INDUSTRIES INC	357 N	CINCINNATI UNIVERSITY OF
31 B	AVCO CORP	117 B	CLARK EQUIPMENT CO
77 B	AVCO EVERETT RESEARCH LABORATORY	493 N	COLORADO STATE UNIVERSITY
239 B	AYDIN CORP	299 N	COLORADO UNIVERSITY
59 B	ACM CORP	432 E	COLUMBIA RESEARCH CORP
106 B	PCM SERVICES CC	137 N	COLUMBIA UNIVERSITY
242 B	P K DYNAMICS INC	142 E	COMCO ELECTRONICS CORP
458 B	BALDWIN ELECTRONICS INC	162 E	COMMAND CONTROL & COMMUNICATION
91 B	HALL BROS RESEARCH CORP	205 E	COMFTEK RESEARCH INC
313 B	BATH IRON WORKS CCP	269 E	COMPUTER CORP OF AMERICA

\* B = BUSINESS FIRM  
F = FOREIGN CONTRACTOR  
N = NON PROFIT INSTITUTION

INDEX OF 500 LARGEST MILITARY  
PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,  
TEST AND EVALUATION WORK

FISCAL YEAR 1977

RANK *	CONTRACTOR	RANK *	CONTRACTOR
LIST *		LIST *	
37	B COMPUTER SCIENCES CORP	82	E FAIRCHILD INDUSTRIES INC
762	A COMTEL CORP	178	B FALCON RESEARCH & DEVELOPMENT CO
413	B CONSOLIDATED ANALYSIS CENTER INC	364	E FARNSWORTH CANNON INC
45	B CONTROL DATA CORP	292	B FARRAND OPTICAL CO INC
265	N CORNELL UNIVERSITY	39	E FEDERAL ELECTRIC CORP
466	A COULTER INFORMATION SYSTEMS INC	275	E FIBER MATERIALS INC
344	A COURSEWARE INC	356	B FIRESTONE TIRE & RUBBER CO
186	B CUBIC CORP	129	B FLIGHT SYSTEMS INC
154	B CURTISS WRIGHT CORP	371	N FLORIDA STATE UNIVERSITY
78	B CUTLER HAMMER INC	406	N FLORIDA TECHNOLOGICAL UNIVERSITY
314	R D M A SYSTEMS INC	278	N FLORIDA UNIVERSITY
358	H DATACOM INC	24	B FORD AEROSPACE & COMMUNICATIONS
253	B DATRON SYSTEMS INC	171	E FORD MOTOR CO
456	A DAYRON CORP	451	E FREQUENCY & TIME SYSTEMS INC
90	N DAYTON UNIVERSITY OF	124	E FUGRO NATIONAL INC
311	H DECILOG INC	473	B G R D CO
156	A DECISIONS & DESIGNS INC	22	E GTE SYLVANIA INC
321	R DELEX SYSTEMS INC	67	E GARRETT CORP
316	N DENVER UNIVERSITY OF	3	B GENERAL DYNAMICS CORP
171	B DEVELOPMENT ENGINEERING INC	2	E GENERAL ELECTRIC CO
164	B DEWEY ELECTRONICS CORP	460	E GENERAL INSTRUMENT CORP
349	B DIGITAL COMMUNICATIONS CORP	49	E GENERAL MOTORS CORP
337	R DIGITAL EQUIPMENT CORP	382	B GENERAL PHYSICS CORP
240	B DIKEWOOD INDUSTRIES INC	61	B GENERAL RESEARCH CORP
344	A DOTY ASSOCIATES	403	E GEODYNAMICS CORP
346	N DUKE UNIVERSITY	247	N GEORGE WASHINGTON UNIVERSITY
72	A DYNALECTRON CORP	443	N GEORGETOWN UNIVERSITY
159	B DYNAMICS RESEARCH CORP	208	N GEORGIA INSTITUTE OF TECH
467	A DYNELL ELECTRONICS CORP	89	N GEORGIA TECH RESEARCH INSTITUTE
352	B DYNETICS INC	60	E GLOEAL ASSOCIATES
113	H E G & G INC	118	E GOODYEAR AEROSPACE CORP
341	B E M F CORP	134	E GOULD INC
47	B E S L INC	23	E GRUMMAN AEROSPACE CORP
60	R E SYSTEMS INC	446	E H I T C O
346	H EAGLE PITCHER INDUSTRIES INC	95	B H R B SINGER INC
359	B EASTMAN KODAK CO	399	E HARBRIDGE HOUSE INC
404	R EDMAC ASSOCIATES INC	71	E MARRIS CORP
444	H EDUCATIONAL FILTER CORP	187	N HARVARD UNIVERSITY
266	B EFFECTS TECHNOLOGY INC	176	N HAWAII UNIVERSITY OF
140	B ELECTRONIC COMMUNICATIONS INC	255	E HAYES INTERNATIONAL CORP
325	R ELECTROSPACE SYSTEMS INC	110	E HAZELTINE CORP
65	A EMERSON ELECTRIC CO	438	E HELIX TECHNOLOGY CORP
447	N EMMANUEL COLLEGE	239	E HENNINGSTON DURHAM RICHARDSON
344	B ENERGY RESEARCH CORP	66	E HERCULES INC
252	Q ENSCO INC	483	E HERNER CO
454	R ENVIRONMENTAL RESEARCH TECHNOLOGY	306	B HEWLETT PACKARD CO
115	N ENVIRONMENTAL RSCH INST OF MICH	496	E HI SHEAR CORP
407	B ESSEX CORP	26	E HONEYWELL INC
35	A F M C CORP	146	E HONEYWELL INFORMATION SYSTEMS INC
140	B FAIRCHILD CAMERA & INSTRUMENT CORP	447	N HODSON INSTITUTE

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PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,  
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FISCAL YEAR 1977

RANK LIST	CONTRACTOR	RANK LIST	CONTRACTOR
7 B	HUGHES AIRCRAFT CO	149 B	LOCKHEED ELECTRONICS CO INC
287 B	HUGHES RESEARCH LABORATORIES	6 B	LOCKHEED MISSILES & SPACE CO INC
442 B	HUMAN FACTORS RESEARCH INC	198 B	LOCUS INC
200 N	HUMAN RESOURCES RESEARCH ORGN	100 B	LCGICON INC
423 B	HUMAN SCIENCES RESEARCH INC	114 B	LURAL CORP
142 B	HYCOR INC	304 N	LOUISIANA STATE UNIVERSITY OF
453 B	HYDRONAUTICS INC	234 B	M B ASSOCIATES
211 B	HYDROSCIENCE INC	274 B	M R C CORP
296 B	HYDROTRONICS	101 B	MAGNAVOX CO
69 N	ITT RESEARCH INSTITUTE	64 B	MAGNAVOX GOVT & INDUSTRIAL ELEC CO
331 B	IRT CORP	324 B	MAN TECH CORP
469 B	ITT ARCTIC SERVICES	345 B	MAR INC
377 B	ITT GILFILLAN INC	376 B	MARK RESOURCES INC
119 N	ILLINOIS UNIVERSITY OF	125 B	MARQUARDT CO
440 B	IMAGE GRAPHICS INC	9 B	MARTIN MARIETTA CORP
246 H	INCO INC	207 N	MARYLAND UNIVERSITY OF
393 B	INDUSTRIAL BIO TEST LABORATORIES	315 B	MASSACHUSETTS COMPUTER ASSOCIATES
189 B	INFORMATION DEV & APPLICATIONS	17 N	MASSACHUSETTS INSTITUTE TECHNOLOGY
291 N	INFORMATION SPECTRUM INC	441 N	MASSACHUSETTS UNIVERSITY OF
68 N	INSTITUTE FOR DEFENSE ANALYSIS	144 B	MAXWELL LABORATORIES INC
257 B	INTELCOM R&D TECH	4 B	MCDONNELL DOUGLAS CORP
263 B	INTERMETRICS INC	301 B	MCMULLEN JOHN J ASSOCIATES INC
11 B	INTERNATIONAL BUSINESS MACHINE CO	165 B	MEAD TECHNOLOGY LABORATORIES
197 B	INTERNATIONAL HARVESTER CO	500 B	MECHANICAL TECHNOLOGY INC
158 B	INTERNATIONAL LASER SYSTEMS INC	439 B	MECHANICS RESEARCH INC
33 B	INTERNATIONAL TELEPHONE & TEL CORP	490 B	MERCAN GROUP
46 B	INTERSTATE ELECTRONICS CORP	319 B	METEOROLOGY RESEARCH INC
421 N	IOWA UNIVERSITY OF	214 B	METRIC SYSTEMS CORP
94 B	ITEK CORP	227 N	MIAMI UNIVERSITY OF
288 B	J R R ASSOCIATES INC	163 N	MICHIGAN UNIVERSITY OF
273 H	JAYCOR	497 B	MICROCOM CORP
16 N	JOHNS HOPKINS UNIVERSITY	220 N	MIDWEST RESEARCH INSTITUTE
295 B	KATSER INDUSTRIES CORP	485 B	MILLMASTER GNYX CORPORATION
79 B	KAMAN AEROSPACE CORP	102 B	MINE SAFETY APPLIANCES CO
109 B	KAMAN SCIENCES CORP	334 N	MINNESOTA UNIVERSITY OF
378 H	KAPPA SYSTEMS INC	150 B	MISSION RESEARCH CORP
222 P	KECO INDUSTRIES INC	417 N	MISSOURI UNIVERSITY OF
57 B	KENTRON HAWAII LTD	28 B	MITRE CORP
157 B	KETRON INC	339 B	MONSANTO RESEARCH CORP
408 B	KEYSTONE COMPUTER ASSOC INC	55 B	MOTOROLA INC
449 B	KINTON INC	120 N	NATIONAL ACADEMY OF SCIENCES
170 B	KURAS ALTEKMAN CORP	409 N	NATIONAL SCIENCE FOUNDATION
276 B	L T V CORP	452 B	NETWORK ANALYSIS CORP
124 B	LEAR SIEGLER INC	217 N	NEW MEXICO INSTITUTE MINING & TECH
444 B	LEONAGE BAG & IMPORT CO	109 N	NEW MEXICO STATE UNIVERSITY
429 B	LIFE SYSTEMS INC	136 N	NEW MEXICO UNIVERSITY OF
272 B	LINKARIT CORP	262 N	NEW YORK POLYTECHNIC INSTITUTE
223 B	LITTLE ARTHUR D INC	264 N	NEW YORK STATE UNIV RESEARCH FOUND
47 B	LITTON SYSTEMS INC	297 N	NEW YORK UNIVERSITY
19 B	LOCKHEED AIRCRAFT CORP	191 B	NEWPORT NEWS SHIPBUILD & DRY DOCK CO

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PRIME CONTRACTORS FOR RESEARCH, DEVELOPMENT,  
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FISCAL YEAR 1977

RANK *	CONTRACTOR	RANK *	CONTRACTOR
LIST *		LIST *	
400 B	NIELSEN ENGINEERING & RESEARCH CO	183 E	QINTRON SYSTEMS INC
372 B	NOAH J WATSON ASSOCIATES INC	84 E	R & D ASSOCIATES
341 B	NORTH AMERICAN PHILIPS CORP	13 B	R C A CORP
462 N	NORTH CAROLINA UNIVERSITY OF	309 E	R C A LABORATORIES SARNOFF RES CTR
310 N	NORTHEASTERN UNIVERSITY	387 E	RALSTON PURINA CO
21 H	NORTHROP CORP	63 N	RANE CORP
424 N	NORTHWESTERN UNIVERSITY	427 E	RAYCLIFF INDUSTRIES INC
383 B	OCEAN DATA SYSTEMS INC	481 B	RAYMOND ENGINEERING INC
330 B	OCEAN TECHNOLOGY INC	8 E	RAYTHEON CO
177 N	OHIO STATE UNIV RESEACH FOUNDATION	202 F	REDIFCON FLIGHT SIMULATION LTD
261 N	OKLAHOMA STATE UNIVERSITY OF	465 N	REGIS COLLEGE
471 B	OMNI SPECTRA INC	385 N	RENSSELAER POLYTECHNIC INSTITUTE
175 B	OPERATIONS RESEARCH INC	348 N	RESEARCH TRIANGLE INSTITUTE
229 N	OREGON STATE UNIVERSITY	328 N	RHODE ISLAND UNIVERSITY OF
367 B	ORINCON CORP	277 B	RICHARDSON MERKEL INC
420 B	P E SYSTEMS INC	155 N	RIVERSIDE RESEARCH INSTITUTE
437 B	P R C TECHNICAL APPLICATIONS	80 N	ROCHESTER UNIVERSITY OF
216 A	PACCAR INC	1 B	ROCKWELL INTERNATIONAL CORP
233 B	PACER SYSTEMS INC	34 E	ROHR INDUSTRIES INC
459 B	PACIFIC ANALYSIS CORP	414 E	ROME RESEARCH CORP
243 B	PACIFIC SIERRA RESEARCH CORP	370 F	ROYAL NORWEGIAN CNCL SCNTFC INRS
354 B	PACIFICA TECHNOLOGY	464 B	RYCKMAN EDEERLEY TOLMINSON & ASSOC
192 N	PALISADES GEOPHYSICAL INSTITUTE	333 B	S C I SYSTEMS INC
458 N	PALISADES INSTITUTE	51 N	S R I INTERNATIONAL
470 B	PARAHO DEVELOPMENT CORP	259 N	SAN DIEGO STATE COLLEGE FOUNDATION
123 B	PARSONS RALPH M CO INC	81 E	SANDERS ASSOCIATES INC
194 B	PATTERN ANALYSIS & RECOGNITION CO	215 B	SANTA BARBARA RESEARCH CENTER
340 B	PEAT MARWICK MITCHELL & CO	305 E	SANTA FE CORP
111 N	PENNSYLVANIA STATE UNIVERSITY	302 B	SCHAFER W J ASSOCIATES INC
183 N	PENNSYLVANIA UNIVERSITY OF	44 E	SCIENCE APPLICATIONS INC
293 B	PERCEPTRONICS INC	244 E	SCOPE ELECTRONICS INC
105 B	PERKIN ELMER CORP	326 E	SEACO INC
289 A	PHOTO SONICS INC	431 B	SEDCO SYSTEMS INC
373 B	PHYSICAL DYNAMICS INC	225 B	SEMCOR INC
379 B	PHYSICAL SCIENCES CORP	342 E	SERV AIR INC
164 A	PHYSICS INTERNATIONAL CO	425 E	SHIP SYSTEMS INC
401 B	PINSON ASSOCIATES INC	499 B	SHOCK HYDRODYNAMICS INC
391 N	PITTSBURGH UNIVERSITY OF	323 B	SIERRACIN CORP
139 B	PLANNING RESEARCH CORP	300 E	SIMULATION PHYSICS INC
212 B	PLANNING SYSTEMS INC	52 B	SINGER CO
116 B	PNEUMC CORP	290 N	SMITHSONIAN INSTITUTION
221 B	POLAR RESEARCH LABORATORY INC	206 E	SOFTECH INC
143 B	POTOMAC RESEARCH INC	396 N	SCUTHEASTERN CTR ELECT ENGR EDUC
194 B	PRESEARCH INC	98 N	SCUTHEFN CALIFORNIA UNIVERSITY OF
284 N	PRINCETON UNIVERSITY	463 N	SOUTHERN METHODIST UNIVERSITY OF
195 B	PROTOTYPE DEVELOPMENT INC	213 N	SOUTHERN RESEARCH INSTITUTE
398 B	PULSEPOWER SYSTEMS INC	130 N	SOUTHWEST RESEARCH INSTITUTE
179 N	PURDUE RESEARCH FOUNDATION	241 E	SPACE DATA CORP
254 B	QUEST RESEARCH CORP	495 B	SPACE MICROWAVE LABORATORIES INC
402 B	QUESTRON CORP	434 E	SPACE VECTOR CORP

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FISCAL YEAR 1977

RANK LIST	CONTRACTOR	RANK LIST	CONTRACTOR
218 B	SPARTAN CORP	83 N	TEXAS UNIVERSITY OF
219 B	SPERS ASSOCIATES INC	25 E	TEXTRON INC
298 B	SPECTRA RESEARCH SYSTEMS INC	85 E	THICKOL CORP
388 B	SPECTRONICS CORP	103 E	TRACOR INC
476 N	SPECOM COMMUNICATIONS RESEARCH LABS	390 E	TRACOR MARINE INC
29 B	SPERRY RAND CORP	484 E	THIAD INC
96 N	STANFORD UNIVERSITY	166 E	UTL CORP
145 B	STEARNS KOGER INC	322 E	ULTRASYSTEMS INC
343 A	STEIN ASSOCIATES INC	450 E	UNDERSEA RESEARCH CORP
478 B	STERLING WALTER V INC	395 E	UNI SYSTEMS INC
240 N	STEVENS INSTITUTE OF TECHNOLOGY	435 E	UNIFLITE INC
27 B	SUMMA CORP	455 E	UNION CARBIDE CORP
489 B	SUPERIOR STEEL CORP & TRIM CO INC	442 E	UNITECH INC
397 B	SUSQUEHANNA CORP	236 A	UNITED STATES COMMERCE DEPT
479 B	SUTPON CORP	204 N	UNITED STATES ENERGY DEPT
366 B	SYNECTICS CORP	245 A	UNITED STATES NATL AERO SPACE AGY
283 N	SYRACUSE RESEARCH CORP	190 N	UNITED STATES SMALL BUSINESS ADMIN
232 N	SYRACUSE UNIVERSITY	12 B	UNITED TECHNOLOGIES CORP
50 B	SYSTEM DEVELOPMENT CORP	172 N	UTAH STATE UNIVERSITY
472 B	SYSTEM ENHANCEMENT SERVICES CO INC	365 N	UTAH UNIVERSITY OF
121 B	SYSTEM PLANNING CORP	127 B	VARIAN ASSOCIATES
312 B	SYSTEMATICS GENERAL CORP	203 E	VEDA INC
92 B	SYSTEMS CONSULTANTS INC	457 N	VIRGINIA POLYTECHNIC INSTITUTE
135 B	SYSTEMS CONTROL INC	349 N	VIRGINIA UNIVERSITY OF
268 B	SYSTEMS ENGINEERING LABORATORIES	368 E	VISIDYNE INC
267 B	SYSTEMS EXPLORATION INC	62 E	VOUGHT CORP
353 B	SYSTEMS PLANNING & ANALYSIS INC	426 E	WEDENBURG R M & CO
42 B	SYSTEMS RESEARCH LABORATORIES INC	392 E	WAGNER DANIEL M ASSOCIATES INC
133 B	SYSTEMS SCIENCE & SOFTWARE	99 N	WASHINGTON UNIVERSITY OF
10 B	TRW INC	224 E	WATKINS JOHNSON CO
256 B	TEAGUE WALTER DCRWIN	490 N	WAYNE STATE UNIVERSITY
477 B	TECHNITROL INC	266 E	WEICLINGER ASSOCIATES CONSULT ENGR
226 B	TECHNOLOGY INC	329 N	WENTWORTH INSTITUTE
122 B	TECHNOLOGY SERVICE CORP	76 E	WESTERN ELECTRIC CO INC
433 B	TECHPLAN CORP	15 E	WESTINGHOUSE ELECTRIC CORP
416 B	TECOLOTE RESEARCH INC	374 E	WESTON INSTRUMENTS INC
78 B	TELEDYNE BROWN ENGINEERING	448 B	WHEELERS INDUSTRIES INC
132 B	TELEDYNE C A E	494 E	WHITAKER CORP
336 B	TELEDYNE INC	258 E	WHITE ENGINES INC
56 B	TELEDYNE INDUSTRIES INC	228 E	WHITTAKER CORP
405 B	TELEDYNE ISCTOPES	70 B	WILCOX ELECTRIC CO INC
411 B	TELEDYNE LEWISBURG	53 E	WILLIAMS RESEARCH CORP
271 A	TELEDYNE M E C	199 N	WISCONSIN UNIVERSITY OF
468 B	TELEPHONICS	112 N	WOODS MOLE OCEANOGRAPHIC INST
355 N	TENNESSEE UNIVERSITY OF	410 N	WRIGHT STATE UNIVERSITY
360 B	TENSOR INDUSTRIES INC	126 E	XERXIS CORP
375 B	TERRA TEK INC	230 B	XONICS INC
153 B	TETRA TECH INC	461 E	XYBION CORP
361 N	TEXAS A & M UNIVERSITY	231 N	YALE UNIVERSITY
20 B	TEXAS INSTRUMENTS INC	307 E	YOUNG ARTHUR & CO

\* B = BUSINESS FIRM

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N = NON PROFIT INSTITUTION

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## SECTION I - J. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
1	ROCKWELL INTERNATIONAL CORP ANAHUAC CANOGA PARK CONNEY LOS ANGELES NEWPORT BEACH SEAL BEACH THOUSAND OAKS CEDAR RAPIDS GRIFFISS AFB COLONIALS WRIGHT PATTERNS TULSA ADDISON MCGREGOR RICHARDSON ARLINGTON MCLEAN	513,576 * 55,067 13,591 16,955 350,502 4,422 25,094 3,707 4,502 615 32,452 155 200 1,135 863 3,075 1,233 193		MCDONNELL DOUGLAS CORP LOWRY AFB TITUSVILLE ST CHARLES ST LOUIS KIRTLAND AFB	2,673 473 2,575 353,015 1,111
2	GENERAL ELECTRIC CO REDSTONE ARSEN WILLIAMS AFB PLEASANTON SANTA BARBARA SUMMERSALE GROTON WASHINGTON DAYTONA BEACH GRINNEVILLE BEDFORD LYNN PITTSFIELD WEST LYNN WILLIAMSTON WILMINGTON BINGHAMTON JOHNSON CITY WISCONSINA NORTH SYRACUSE SCHEMECTADY SYRACUSE UTICA CINCINNATI EVENDALE WRIGHT PATTERNS ERIE KING OF PRUSSI PHILADELPHIA VALLEY FORGE BURLINGTON ARLINGTON	510,850 * 110 869 20 2,696 66 201 289 1,397 21 2,439 1,328 11,573 175,317 51 461 25 272 51 20 83,689 27,446 4,785 114,497 12,057 120 67 33,756 34,023 436 2,561 691		5 BOEING CO MUNSVILLE VANDENBERG AFB WICHITA KIRTLAND AFB ROME HOUSTON EVERETT KENT RENTON SEATTLE	489,515 * 1,139 17,571 5,252 139 136 325 66,025 12,155 2,911 384,269
3	GENERAL DYNAMICS CORP YJ4A POMONA SAN CLEMENTE I SAN DIEGO VANDENBERG AFB GROTON FORT POLK DJINCS ALBUQUERQUE KIRTLAND AFB FORT WORTH TACOMA	697,524 * 650 61,706 97 93,789 24,850 32,060 189 1,000 640 1,230 281,430 70		6 LOCKHEED MISSILES & SPACE CO INC HUNTSVILLE PALO ALTO SUNNYVALE 7 HUGHES AIRCRAFT CO TUCSON CANOGA PARK CULVER CITY EL SEGUNDO FULLERTON LOS ANGELES MALIBU NEWPORT BEACH OCEANSIDE POINT MUGU SAN DIEGO TORRANCE TYNDALL AFB WARMINTON	472,437 * 660 3,181 463,997 318,071 * 911 131,641 411 73,547 12,967 87,405 1,395 4,795 1,124 75 595 563 2,484 125 113
4	MCDONNELL DOUGLAS CORP CUPERTINO EDWARDS AFB HUNTINGTON BEAC LONGBEACH LONG BEACH MONROVIA SANTA MONICA TORRANCE	692,082 * 127 73 105,303 65- 25,326 1,325 25 123		9 MARTIN MARIETTA CORP VANDENBERG AFB DENVER ORLANDO FORT GORDON BALTIMORE 10 T R W INC HUNTSVILLE LAUDALE REDONDO BEACH SAN CLEMENTE SAN DIEGO VANDENBERG AFB ALBUQUERQUE CLEVELAND WRIGHT PATTERNS MCLEAN	263,603 * 17,173 32,374 152,331 53 325 172,915 * 1,459 1,429 156,603 312 741 1,482 197 1,092 783 4,256

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
11	INTERNATIONAL BUSINESS MACHINES CORP	<u>165,362</u> *		WESTINGHOUSE ELECTRIC CORP	
	GERMANY	128		CHESWICK PA	1,196
	HUNTSVILLE ALABAMA	3,368		EAST PITTSBURG PA	102
	LOS ANGELES CALIFORNIA	369		LARGE PA	305
	SAN JOSE CALIFORNIA	396		PITTSBURGH PA	3,595
	SUNNYVALE CALIFORNIA	166		WARMISTER PA	25
	THOUSAND OAKS CALIFORNIA	1,036		WEST MIFFLIN PA	56,092
	VANDENBERG AFB CALIFORNIA	366		ARLINGTON VIRGINIA	67
	WESTLAKE VILLA CALIFORNIA	4,635			
	BOULDER COLORADO	10	18	LOCKHEED AIRCRAFT CORP	<u>83,617</u> *
	WASHINGTON DC	1,392		BURBANK CALIFORNIA	<u>48,995</u>
	CAPE CANAVERAL FLORIDA	110		ONTARIO CALIFORNIA	223
	GAITHERSBURG MARYLAND	1,083		PALO ALTO CALIFORNIA	93
	ROCKVILLE MARYLAND	15		REDLANDS CALIFORNIA	34
	MADISON NEW JERSEY	31		SAUGUS CALIFORNIA	219
	OSWEGO NEW YORK	551		SUNNYVALE CALIFORNIA	5,323
	OMEGA NEW YORK	60,226		MARIETTA GEORGIA	28,292
	WORKS 34N MTS NEW YORK	3,581		HILL AFB JTAH	504
	WRIGHT PATTER OHIO	275			
	AUSTIN TEXAS	10	19	ARD INC ARNOLD EDC	<u>78,432</u> *
	FORT SAM HOUST TEXAS	108		TENNESSEE	<u>78,432</u>
	HOUSTON TEXAS	100			
	ARLINGTON VIRGINIA	2,650	20	TEXAS INSTRUMENTS INC	<u>76,166</u> *
	MASSASS VIRGINIA	43,389		IRAN	<u>165</u>
	NORFOLK VIRGINIA	58		HUNTSVILLE ALABAMA	294
12	UNITED TECHNOLOGIES CORP	<u>157,675</u> *		RIDGECREST CALIFORNIA	30
	EDWARDS AFB CALIFORNIA	31		DALLAS TEXAS	75,154
	SAN JOSE CALIFORNIA	1,399		ALEXANDRIA VIRGINIA	360
	SUNNYVALE CALIFORNIA	26,029	21	NORTHROP CORP	<u>75,408</u> *
	EAST HARTFORD CONN	29,995		ANAHEIM CALIFORNIA	<u>14,722</u>
	HARTFORD CONN	283		HAWTHORNE CALIFORNIA	48,169
	NORFOLK CONN	658		NEWBURY PARK CALIFORNIA	525
	NORWALK CONN	7,392		EGLIN AFB FLORIDA	15
	SOUTH WINDSOR CONN	215		DES PLAINES ILLINOIS	394
	STRATFORD CONN	75,608		ROLLING MEADOW ILLINOIS	5,831
	WINDSOR Locks CONN	1,173		NORMWOOD MASS	4,431
	WEST PALM BEAC FLORIDA	28,566		ARLINGTON VIRGINIA	351
	KIRTLAND AFB NEW MEXICO	150			
13	RCA CORP	<u>169,453</u> *	22	GTE SYLVANIA INC	<u>74,136</u> *
	BAHAMAS	5,528		E T PAC TS ARIZONA	<u>4,893</u>
	T T PAC IS	11,051		SIERRA VISTA ARIZONA	761
	SATELLITE BEAC FLORIDA	29		LOS ANGELES CALIFORNIA	2,647
	BURLINGTON MASS	8,344		MOUNTAIN VIEW CALIFORNIA	29,825
	CAMDEN NEW JERSEY	43,788		NEEDHAM MASS	9,832
	CHERRY HILL NEW JERSEY	337		NEEDHAM HEIGHT MASS	24,905
	HIGHTSTOWN NEW JERSEY	629		WALTHAM MASS	65
	MOORESTOWN NEW JERSEY	76,926		SPRINGFIELD VIRGINIA	322
	PRINCETON NEW JERSEY	1,586		CLAM LAKE WISCONSIN	883
	SOMERVILLE NEW JERSEY	1,592	23	GRUMMAN AEROSPACE CORP	<u>69,543</u> *
	WHITE SANDS MS NEW MEXICO	1,080		CHINA LAKE CALIFORNIA	523
	LANCASTER PA	275		POINT MUGU CALIFORNIA	15
	MEADOWLANDS PA	91		BETHPAGE NEW YORK	64,169
	WARMISTER PA	87		CALVERTON NEW YORK	35
	SPRINGFIELD VIRGINIA	690			
14	CHRYSLER CORP	<u>146,089</u> *	24	FORD AEROSPACE & COMMUNICATIONS	<u>64,365</u> *
	HUNTSVILLE ALABAMA	151		MOUNTAIN VIEW CALIFORNIA	134
	NEW ORLEANS LOUISIANA	414		NEWPORT BEACH CALIFORNIA	48,903
	CENTER LINE MICHIGAN	57		PALO ALTO CALIFORNIA	12,671
	DETROIT MICHIGAN	950		TWENTYNINE PAL CALIFORNIA	793
	STERLING MICHIGAN	3,395		VANDENBERG AFB CALIFORNIA	1,005
	STERLING HEIGHT MICHIGAN	120,236		BEDFORD MASS	45
	MARSH MICHIGAN	21,000		DEARBORN MICHIGAN	91
15	WESTINGHOUSE ELECTRIC CORP	<u>138,053</u> *		PHILADELPHIA PA	17
	CAMP PENDLETON CALIFORNIA	37	25	WILLOW GROVE PA	731
	SUNNYVALE CALIFORNIA	13,101			
	EGLIN AFB FLORIDA	63	TEXTRON INC	<u>63,427</u> *	
	ANNAPOLIS MARYLAND	1,936		FORT HUACHUCA ARIZONA	655
	BALTIMORE MARYLAND	60,987		TUCSON ARIZONA	2,635
	HUNT VALLEY MARYLAND	150		BELMONT CALIFORNIA	28,514
	MORSEHEADS NEW YORK	172		SYLMAR CALIFORNIA	216
	LIMA OHIO	146		VALENCIA CALIFORNIA	263
				WATERBURY CONN	34
				EGLIN AFB FLORIDA	204

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

SECTION I - U. S. BUSINESS FIRMS  
FISCAL YEAR 1977

THE TOTAL AMOUNT CANCELLED TURNS EXCEED NEW AWARDS  
IN THE ENTIRE BUSINESS

## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
42	SYSTEMS RESEARCH LABORATORIES INC RESEDA CALIFORNIA EGLIN AFB FLORIDA DAYTON OHIO WINDHAM OHIO WRIGHT PATTERS OHIO NEWPORT NEWS VIRGINIA	29,164 * 153 19 3,605 112 24,964 292	48	BENDIX CORP CANOGA PARK CALIFORNIA NORTH HOLLYWOOD CALIFORNIA SYLMAR CALIFORNIA FORT LAUDERDALE FLORIDA MISHAWAKA INDIANA SOUTH BEND INDIANA DAVENPORT IOWA BALTIMORE MARYLAND COLUMBIA MARYLAND TOWSON MARYLAND SOUTHFIELD MICHIGAN EATONTOWN NEW JERSEY TETERBORO NEW JERSEY UTICA NEW YORK	23,773 * 22 7,939 2,841 13 1,163 65 262 2,463 1,373 4,433 476 299 1,479 25
44	SCIENCE APPLICATIONS INC MONTGOMERY ALABAMA Tucson ARIZONA BERKELEY CALIFORNIA EL SEGUNDO CALIFORNIA LA JOLLA CALIFORNIA LOS ANGELES CALIFORNIA OAKLAND CALIFORNIA PALO ALTO CALIFORNIA PLEASANTON CALIFORNIA SAN DIEGO CALIFORNIA SAN FRANCISCO CALIFORNIA SANTA ANA CALIFORNIA SUNNYVALE CALIFORNIA VANDENBERG AFB CALIFORNIA COLORADO SPRINGS COLORADO DENVER COLORADO ENGLEWOOD COLORADO WASHINGTON DC ROLLING MEADOW ILLINOIS BEDFORD MASS BOSTON MASS ANN ARBOR MICHIGAN LAS VEGAS NEVADA ALBUQUERQUE NEW MEXICO ARLINGTON VIRGINIA MCLEAN VIRGINIA	27,078 * 3,965 50 124 1,277 11,571 156 70 56 42 835 53 294 99 566 385 185 165 2,693 113 57 37 165 272 276 693 3,090	49	GENERAL MOTORS CORP GOLETA CALIFORNIA INDIANAPOLIS INDIANA KOKOMO INDIANA DETROIT MICHIGAN WARREN MICHIGAN	23,723 * 5,323 12,781 297 23 5,297
45	CONTROL DATA CORP T T PAC IS FULTON CALIFORNIA MONTEREY CALIFORNIA SAN DIEGO CALIFORNIA SANTA MONICA CALIFORNIA SUNNYVALE CALIFORNIA VANDENBERG AFB CALIFORNIA HONOLULU CITY HAWAII ROCKVILLE MARYLAND BEDFORD MASS MINNEAPOLIS MINNESOTA ARLINGTON VIRGINIA HAMPTON VIRGINIA VIRGINIA BEACH VIRGINIA	26,300 * 5,630 22- 20 2,867 30 36 194 289- 122 1,472 15,730 95 135 95	50	SYSTEM DEVELOPMENT CORP HUNTSVILLE ALABAMA LOS ANGELES CALIFORNIA SANTA CLARA CALIFORNIA SANTA MONICA CALIFORNIA SUNNYVALE CALIFORNIA VANDENBERG AFB CALIFORNIA WASHINGTON DC FORT LEAVENWORTH KANSAS WEST LONG BRANCH NEW JERSEY DAYTON OHIO HAMPTON VIRGINIA MCLEAN VIRGINIA	23,115 * 5,153 93 351 6,323 333 3,187 250 533 1,162 141 2,466 2,473
46	INTERSTATE ELECTRONICS CORP ANAHEIM CALIFORNIA	25,647 * 25,647	52	SINGER CO LUKE AFB ARIZONA WILLIAMS AFB ARIZONA GLENDALE CALIFORNIA LOS ANGELES CALIFORNIA SUNNYVALE CALIFORNIA FAIRFIELD NEW JERSEY LITTLE FALLS NEW JERSEY WAYNE NEW JERSEY BINGHAMTON NEW YORK WRIGHT PATTERS OHIO STATE COLLEGE PA	22,977 * 629 767 2,353 135 533 237 10,991 119 2,190 1,415 593
47	LITTON SYSTEMS INC CANTON PARK CALIFORNIA SAN CARLOS CALIFORNIA SUNNYVALE CALIFORNIA VALLEJO CALIFORNIA VAN NUYS CALIFORNIA WOODLAND HILLS CALIFORNIA WASHINGTON DC EGLIN AFB FLORIDA COLLEGE PARK MARYLAND MORRIS PLAINS NEW JERSEY MELVILLE NEW YORK DREXEL HILL PA FORT BLISS TEXAS SALT LAKE CITY UTAH	25,501 * 6,103 754 265 240 9,495 3,610 21 88 6,070 33 2,924 40 16 55-	53	WILLIAMS RESEARCH CORP WALLED LAKE MICHIGAN	23,503 * 22,563
			55	MOTOROLA INC PHOENIX ARIZONA SCOTTSDALE ARIZONA	19,127 * 57 19,073
			56	TELEDYNE INDUSTRIES INC NORTHRIDGE CALIFORNIA SAN DIEGO CALIFORNIA MUSKEGON MICHIGAN WHITE SANDS MS NEW MEXICO GARLAND TEXAS HILL AFB UTAH ALEXANDRIA VIRGINIA	17,711 * 423 11,675 333 293 1,702 447 2,468
			57	KENTRON HAWAII LTD T T PAC IS EDWARDS AFB CALIFORNIA HILL AFB UTAH	17,403 * 14,562 1,019 1,783

- = MINUS AMOUNT (CANCELLATIONS EXCLED NEW AWARDS)  
S = SMALL BUSINESS

SECTION I - J. S. BUSINESS FIRMS  
FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
58	AMERICAN BELL INTERNATIONAL INC SOUTH PLAINFIELD NEW JERSEY	16,841 *	73	CALSPAN CORP LOS ANGELES SAN DIEGO BUFFALO	15,449 * 5,345 21 10,383
59	BOEING CORP HUNTSVILLE ALABAMA FORT KNOX KENTUCKY PICKENS MISS ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO MCLEAN VIRGINIA VIENNA VIRGINIA	16,783 * 118 401 610 51 3,867 442 7,081 4,239	74	BUNKER RAMO CORP WESTLAKE VILLA BROADVIEW WRIGHT PATTERNS	13,615 * 12,254 55 705
60	E SYSTEMS INC ST. PETERSBURG FLORIDA HUNTINGTON INDIANA GREENVILLE TEXAS SALT LAKE CITY UTAH FALLS CHURCH VIRGINIA	16,517 * 295 65 259 23 15,873	76	WESTERN ELECTRIC CO INC WHIPPERY NEW YORK WINSTON SALEM	12,525 * 59 12,163 75 385
61	GENERAL RESEARCH CORP HUNTSVILLE ALABAMA SANTA BARBARA CALIFORNIA FORT WALTON BE FLORIDA GRIFFISS AFB NEW YORK ARLINGTON VIRGINIA MCLEAN VIRGINIA	15,513 * 466 215 6,925 194 60 755 3,937	77	AVCO EVERETT RESEARCH LABORATORY MAUI EVERETT KIRTLAND AFB	12,344 * 3,677 8,983 39
62	VOUGHT CORP STERLING HEIGHTS MICHIGAN WARREN MICHIGAN WRIGHT PATTERNS OHIO DALLAS TEXAS GRAND PRAIRIE TEXAS	16,407 * 449 685 625 13,836 2,014	78	TELEDYNE BROWN ENGINEERING HUNTSVILLE FORT WALTON BE	11,915 * 11,693 216
64	MAGNAVOX GOVT & INDUSTRIAL ELECT CO TORRANCE CALIFORNIA FORT WAYNE INDIANA HAWAII NEW JERSEY PHILADELPHIA PA	15,387 * 1,325 12,356 1,306 400	79	KAMAN AEROSPACE CORP BLOOMFIELD	11,457 * 11,457
65	EMERSON ELECTRIC CO ST. LOUIS	15,323 * 15,329	81	SANDERS ASSOCIATES INC VANDENBERG AFB WASHINGTON MANCHESTER MERRIMACK NASHUA	14,713 * 10 13 533 83 11,77
66	HERCULES INC WILMINGTON DELAWARE EDLIN AFB FLORIDA COLJURIA MARYLAND PINTO MARYLAND MAGNA UTAH ROCKET CENTER WVA	15,283 * 69 200 20 11 7,560 7,643	82	FAIRCHILD INDUSTRIES INC GERMANTOWN FARMINGDALE	11,655 * 3,92 8,763
67	GARRETT CORP PHOENIX LOS ANGELES TORRANCE AFLMAR	14,937 * 2,714 65 11,988 170	84	R & D ASSOCIATES LOS ANGELES MARINA DEL REY SANTA MONICA KIRTLAND AFB	14,497 * 33 9,381 647 634
70	WILCOX ELECTRIC CO INC KANSAS CITY	14,635 * 14,635	85	THIOKOL CORP HUNTSVILLE ELKTON BRIGHTON CITY OGDEN	14,444 * 3,142 1,454 2,375 18
71	HARRIS CORP MELBOURNE PALM BAY PATRICK AFB	13,930 * 4,277 9,603 50	86	BOLT BERANEK & NEWMAN INC CANOGA PARK CAMBRIDGE ALEXANDRIA ARLINGTON	14,424 * 191 4,423 145 53
72	DYNAELECTRON CORP POINT MUGU HAWAII ALBUQUERQUE NEW MEXICO HOLLOMAN AFB NEW MEXICO KIRTLAND AFB NEW MEXICO WHITE SANDS MS NEW MEXICO WRIGHT PATTERNS OHIO	13,871 * 685 360 1,341 2,689 715 7,495 188	87	E S L INC SUNNYVALE	10,405 * 10,405
91	BALL BROS RESEARCH CORP BOULDER WASHINGTON	9,105 * 70			
92	SYSTEMS CONSULTANTS INC OXNARD SAN DIEGO WASHINGTON JERICHO WRIGHT PATTERNS ARLINGTON	9,103 * 105 43 9,437 92 35 40			

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S = SMALL BUSINESS

## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
93	CAMPBELL ALLEN INC YJ4A KIRTLAND AFB	9,087 * 480 8,607	110	HAZELTINE CORP AVON BRAINTREE QUINCY GREENLAWN	6,563 * 84 2,815 145 3,918
94	ITEK CORP SJNNYVALE LEXINGTON	8,943 * 3,884 5,059	113	E S & G INC YUMA SAN DIEGO ROCKVILLE SALEM NELLIS AFB ALBUQUERQUE KIRTLAND AFB	6,296 * 12 52 5,983 233 253 1,167 599
95	H R B SINGER INC WRIGHT PATTERNS STATE COLLEGE RESTON	8,780 * 161 6,770 1,069			
97	CINCINNATI ELECTRONICS CORP CINCINNATI EVENDALE	S 8,761 * 7,988 753	114	LORAL CORP BRONX YONKERS	2,890 * 1,311 4,579
100	LOGICON INC HAWTHORNE SAN DIEGO SAN PEDRO TORRANCE BEDFORD LEXINGTON WRIGHT PATTERNS	S 8,357 * 50 2,271 1,939 1,037 274 26 2,700	116	PNEUMO CORP KALAMAZOO	5,742 * 5,742
101	MAGNAVOX CO TORRANCE FORT WAYNE SILVER SPRING PHILADELPHIA	7,964 * 6,061 2,950 180 843	117	CLARK EQUIPMENT CO BENTON HARBOR	5,122 * 5,122
102	MINE SAFETY APPLIANCES CO GALLERY PITTSGURGH	7,805 * 7,699 105	118	GOODYEAR AEROSPACE CORP LITCHFIELD PAR AKRON	3,103 * 2,329 2,780
103	TRACOR INC WASHINGTON PANAMA CITY PORT EVERGLADE PATUXENT RIVER ROCKVILLE AUSTIN	7,578 * 80 389 1,596 402 1,521 3,590	121	SYSTEM PLANNING CORP HUNTSVILLE FORT KNOX ARLINGTON	S 4,987 * 51 232 4,705
104	PHYSICS INTERNATIONAL CO SAN LEANDRO	S 7,380 * 7,380	122	TECHNOLOGY SERVICE CORP SANTA MONICA SILVER SPRING	4,913 * 4,917 396
105	PERKIN ELMER CORP MOUNTAIN VIEW POMONA DANBURY NORWALK WILTON CHICAGO	7,237 * 50 22 118 6,329 707 11	123	PARSONS RALPH M CO INC PASADENA	4,903 * 4,903
106	9 0 4 SERVICES CO FORT DODGE FORT LEAVENWORTH WRIGHT PATTERNS FORT HOOD MOLEAN VIENNA	7,222 * 5,039 98 712 137 936 302	124	FUGRO NATIONAL INC LONG BEACH	S 4,487 * 4,087
107	ANALYTIC SCIENCES CORP READING	S 7,221 * 7,221	125	MARQUARDT CO VAN NUYS	4,843 * 4,843
108	KAHAN SCIENCES CORP COLORADO SPRGS BURLINGTON	7,035 * 6,377 654	126	XEROX CORP PALO ALTO PASADENA WEBSTER NORFOLK SPRINGFIELD	4,828 * 50 4,641 133 11 13
			127	VARIAN ASSOCIATES PALO ALTO SAN CARLOS SANTA CLARA CHEVERLY BEVERLY SALT LAKE CITY	4,793 * 3,901 69 58 48 593 113
			128	LEAR SIEGLER INC ANAHEIM SANTA MONICA GRAND RAPIDS	4,085 * 93 457 4,105
			129	FLIGHT SYSTEMS INC CHINA LAKE MOJAVE NEWPORT BEACH POINT MUGU WHITE SANDS MS ARLINGTON	S 4,293 * 73 3,189 774 349 36 168

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

SECTION I - U. S. BUSINESS FIRMS  
FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
131	DEVELOPMENT ENGINEERING INC GRINDSTUNNEN, SWEDEN	4,572 *	149	LOCKHEED ELECTRONICS CO INC MONT MUNCHUCA, MEXICO	3,761 *
	PTFE	3,704		CLAYFIELD	332
	CEMETAL	868		MATCHING	743
132	TELETYNE C & S TOLEDO, OHIO	4,435 *		MHTT; SANDS MS	1,183
		4,435			1,881
133	SYSTEMS SCIENCE & SOFTWARE HAWAII	4,399 *	150	MISSION RESEARCH CORP SANTA BARBARA	3,723 *
	CALIFORNIA	72		ALBUQUERQUE	5,036
	LS 1010	3,559		MIRTLAND AFB	21
	SAN JUAN	715			54
	NORFOLK	52			
134	GRUETT INC SAN DIEGO	4,371 *	162	DAIRE CORP DORAVILLE	3,633 *
	SUNNYVALE	225			3,632
	ROLLING MEADOW	36			
	GLEN BURNIE	72		163	TELEA TECH INC PASADENA
	CLEVELAND	196		SAN DIEGO	3,568 *
	MCCONNELLSVILLE	3,754		ARLINGTON	1,715
	OHIO	90			444
					453
135	SYSTEMS CONTROL INC PALO ALTO	4,369 *	164	CURTLESS WRIGHT CORP WOOD RIDGE	3,545 *
	CALIFORNIA	6,369		BUFFALO	3,543
					33
136	A A T CORP BALTIMORE	4,183 *	166	DECISIONS & DESIGNS INC MCLEAN	3,443 *
	ROCKEYSVILLE	964		VIRGINIA	3,441
		3,219			
137	PLANNING RESEARCH CORP WASHINGTON	4,180 *	167	KETRON INC WAYNE	3,335 *
	OFFUTT AFB	27		ARLINGTON	573
	SAN ANTONIO	2,653			2,920
	MCLEAN	200			
	VIRGINIA	1,300		168	INTERNATIONAL LASER SYSTEMS INC ORLANDO
				FLORIDA	3,277 *
140	FARROWHILL CAMERA & INSTRUMENT CORP PALO ALTO	4,126 *		KIRTLAND AFB	4,111
	CALIFORNIA	30			747
	SYOSSET	4,094			
141	CONCO ELECTRONICS CORP FULLERTON	3,997 *	169	DYNAMICS RESEARCH CORP WILMINGTON	3,073 *
	SPAIN	2,239		445	3,073
	CALIFORNIA	2,758			
143	POTOMAC RESEARCH INC PANAMA CITY	3,970 *	170	BENDIX FIELD ENGINEERING CORP COLUMBIA	3,074 *
	FLORIDA	769		MERCURY	1,053
	MCLEAN	1,658			943
	DUARITON	1,653			
144	MAXWELL LABORATORIES INC LOS ANGELES	3,969 *	171	ACUREX CORP MOUNTAIN VIEW	3,067 *
	CALIFORNIA	650		WRIGHT PATTERS	2,332
	SAN DIEGO	2,926		OHIO	653
	HORJUN	50			
	ALBUQUERQUE	313		172	COMMAND CONTROL & COMMUNICATION LOMITA
				MILITR	3,063
				SAN DIEGO	144
					50
145	IRING RESEARCH CORP SAN DIEGO	3,925 *	173	DEWEY ELECTRONICS CORP PARAMUS	3,072 *
	CALIFORNIA	365		NEW JERSEY	3,073
	SANTA ANA	1,893			
	ANNAPOLIS	1,587			
146	HONEYWELL INFORMATION SYSTEMS INC GERMANY	3,783 *	174	MEAD TECHNOLOGY LABORATORIES DAYTON	3,067 *
	IRAN	213		OHIO	3,056
	JANDENBERG AFB	90		WRIGHT PATTERS	47
	ST. PETERSBURG	794		HILL AFB	10
	FLORIDA	70			
	TAMPA	718		175	BOOZ ALLEN APPLIED RESEARCH INC EGLIN AFB
	MASS	370		FLORIDA	3,19 *
	MINNEAPOLIS	50		FORT WALTON BE	474
	MCLEAN	1,486		MARYLAND	43
	VIRGINIA			RETHESDA	3,102
147	BOOZ ALLEN & HAMILTON INC FORT WALTON BE	3,776 *			
	FLORIDA	185			
	SHALMAR	105			
	BETHESDA	1,869			
	MARYLAND				
	NEW SHREWDURY	1,499			
	NEW JERSEY				
	WRIGHT PATTERS	119			

\* = MINUS AMOUNT CANCELLATIONS EXCEED NEW AWARDS  
S = SMALL BUSINESS

## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
170	KURAS ALTERMAN CORP FAIRFIELD ARLINGTON	2,895 * 2,881 15	197	INTERNATIONAL HARVESTER CO SAN DIEGO HINSDALE BAYONNE	2,337 * 2,238 57 42
171	FORD MOTOR CO DEARBORN	2,877 * 2,877	198	LOCUS INC WASHINGTON STATE COLLEGE	2,324 * 1,246 1,074
173	A E L SERVICE CORP WALL TOWNSHIP COLMAR LANSDALE	2,837 * 896 581 1,480	201	AUERBACH ASSOCIATES INC PHILADELPHIA ARLINGTON	2,281 * 445 1,041
174	ATLANTIC RESEARCH CORP GRIFFISS AFB ROME ALEXANDRIA GAYNESVILLE	2,781 * 35 516 1,192 1,038	203	VEDA INC SOUTHAMPTON ARLINGTON	2,241 * 11 2,233
175	OPERATIONS RESEARCH INC SILVER SPRING	2,757 * 2,757	205	COMPTEK RESEARCH INC BUFFALO WRIGHT PATTERNS DAM NECK	2,195 * 2,035 57 103
178	FALCON RESEARCH & DEVELOPMENT CO DENVER BALTIMORE ALBUQUERQUE BUFFALO	2,701 * 1,488 952 88 173	206	SOFTECH INC WASHINGTON WALTHAM	2,195 * 192 2,001
180	ELECTRONIC COMMUNICATIONS INC ST PETERSBURG	2,675 * 2,675	209	ANALYTICS INC NEW SHREWSBURY JENKINTOWN WILLOW GROVE MCLEAN	2,111 * 501 133 1,373 293
181	CHAMBERLAIN MFG CORP WATERLOO	2,649 * 2,649	210	ANALYTICAL SYSTEMS ENGR CORP BEDFORD BURLINGTON	2,063 * 83 1,979
182	HYCOR INC WORJUN	2,623 * 2,623	211	HYDROSCIENCE INC DALLAS	2,065 * 2,065
183	QUINTON SYSTEMS INC VANDENBERG AFB	2,591 * 2,591	212	PLANNING SYSTEMS INC MCLEAN	2,041 * 2,041
184	PATTERN ANALYSIS & RECOGNITION CO ROME	2,583 * 2,583	214	METRIC SYSTEMS CORP FORT WALTER BE	2,031 * 2,031
185	STEARNS ROGER INC EDWARDS AFB VANDENBERG AFB	2,572 * 26 2,566	215	SANTA BARBARA RESEARCH CENTER GOLETA	2,021 * 2,021
186	CURIC CORP SAN DIEGO	2,560 * 2,560	216	PACCAR INC RENTON	2,019 * 2,019
189	INFORMATION DEV & APPLICATIONS BELTSVILLE RIVERDALE	2,524 * 2,178 366	218	SPARTON CORP JACKSON	2,008 * 2,008
191	NEWPORT NEWS SHIPYARD & DRY DOCK CO NEWPORT NEWS	2,484 * 2,484	219	SPEARS ASSOCIATES INC NEWTON WALTHAM	1,967 * 482 455
193	C N R INC NEEDHAM NEEDHAM HEIGHT NEWTON UPPER F	2,446 * 1,109 1,192 155	221	POLAR RESEARCH LABORATORY INC SANTA BARBARA	1,902 * 1,902
194	PRESEARCH INC SILVER SPRING ARLINGTON	2,445 * 160 2,285	222	KECO INDUSTRIES INC CINCINNATI	1,901 * 1,901
195	PROTOTYPE DEVELOPMENT INC SANTA ANA	2,383 * 2,383	223	LITTLE ARTHUR D INC CAMBRIDGE	1,901 * 1,901
196	C T E C WASHINGTON FALLS CHURCH	2,362 * 60 2,302	224	WATKINS JOHNSON CO PALO A. TO GAITHERSBURG	1,993 * 1,974 15

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)  
S = SMALL BUSINESS

## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS		
225	SEMDOR INC CHERRY HILL MOBRESTOWN NEW JERSEY	S 1,861 * 34 1,831	252	ENSCO INC SATELLITE BEAC SPRINGFIELD	FLORIDA VIRGINIA	S 1,581 * 431 1,110	
226	TECHNOLOGY INC CARSON LOS ANGELES DAYTON WRIGHT PATTERNS BROOKS AFB SAN ANTONIO	CALIFORNIA CALIFORNIA OHIO OHIO TEXAS TEXAS	1,847 * 89 95 1,073 152 129 309	253	DATRON SYSTEMS INC CHATSWORTH	CALIFORNIA	S 1,534 * 1,534
228	WHITTAKER CORP CHATSWORTH NORTH HOLLYWOOD WALTHAM	CALIFORNIA CALIFORNIA MASS	1,842 * 1,645 75 122	254	QUEST RESEARCH CORP FORT NIAGARA WASHINGTON ALEXANDRIA MCLEAN	ARIZONA DC VIRGINIA VIRGINIA	S 1,530 * 685 23 39 975
230	XUNICS INC EL SEGUNDO LOS ANGELES VAN NUYS	CALIFORNIA CALIFORNIA CALIFORNIA	S 1,831 * 735 69 1,028	255	MAYES INTERNATIONAL CORP BIRMINGHAM LEEDS	ALABAMA ALABAMA	1,523 * 952 71
233	PACER SYSTEMS INC BURLINGTON FORT WASHINGTON	MASS PA	S 1,790 * 110 1,680	256	TEAGUE WALTER DORWIN ANAHEIM OXNARD SUNNYVALE	CALIFORNIA CALIFORNIA CALIFORNIA	> 1,514 * 395 413 300
234	M R ASSOCIATES SAN RAMON	CALIFORNIA	S 1,772 * 1,772	257	INTELCOM RAD TECH SAN DIEGO	CALIFORNIA	> 1,504 * 1,504
235	ALL AMERICAN INDUSTRIES INC WILMINGTON	DELAWARE	1,769 * 1,769	258	WHITE ENGINES INC CANTON	OHIO	1,503 * 1,503
238	HENNINGSTON DURHAM RICHARDSON SANTA BARBARA	CALIFORNIA	1,766 * 1,766	260	ANALYSIS & TECHNOLOGY INC GROTON STONINGTON NORFOLK	CONN CONN VIRGINIA	S 1,502 * 74 1,213 173
239	AYDIN CORP PALO ALTO VANDENBERG AFB FORT WASHINGTON NEWTON	CALIFORNIA CALIFORNIA PA PA	S 1,763 * 70 1,259 75 339	263	INTERMETRICS INC CAMBRIDGE WRIGHT PATTERNS	MASS PA	> 1,471 * 487 484
241	SPACE DATA CORP PHOENIX VANDENBERG AFB	ARIZONA CALIFORNIA	S 1,723 * 1,505 218	266	EFFECTS TECHNOLOGY INC SANTA BARBARA	CALIFORNIA	1,451 * 1,451
242	B K DYNAMICS INC SAN DIEGO ROCKVILLE	CALIFORNIA MARYLAND	S 1,687 * 164 1,539	267	SYSTEMS EXPLORATION INC SAN DIEGO	CALIFORNIA	S 1,423 * 1,423
243	PACIFIC SIERRA RESEARCH CORP SANTA MONICA	CALIFORNIA	S 1,664 * 1,664	268	SYSTEMS ENGINEERING LABORATORIES WILLIAMS AFB FORT LAUDERDALE	ARIZONA FLORIDA	> 1,417 * 523 591
244	SCOPE ELECTRONICS INC RESTON	VIRGINIA	S 1,649 * 1,649	269	COMPUTER CORP OF AMERICA CAMBRIDGE	MASS	S 1,406 * 1,406
246	TNOO INC ENT AFB MCLEAN	COLORADO VIRGINIA	S 1,635 * 725 910	271	TELEOVNE M E C PALO ALTO	CALIFORNIA	> 1,353 * 1,353
248	BIOMETRICS INC GARLAND	TEXAS	1,573 * 1,573	272	LINKABIT CORP SAN DIEGO	CALIFORNIA	> 1,354 * 1,354
249	CAPTECH INC SIERRA MADRE	CALIFORNIA	1,571 * 1,571	273	JAYCOR DEL MAR	CALIFORNIA VIRGINIA	> 1,350 * 1,292 42
250	ALEXTOU CARSON CORP SANTA ANA SJDJRY	CALIFORNIA MASS	S 1,570 * 1,150 420	274	M R C CORP BALTIMORE HUNT VALLEY	MARYLAND MARYLAND	> 1,347 * 253 133
251	AUSTIN RESEARCH ASSOCIATES INC AUSTIN	TEXAS	S 1,550 * 1,550	275	FIBER MATERIALS INC BIDDEFORD	MAINE	> 1,343 * 1,343
				276	L T V CORP DALLAS GRAND PRAIRIE	TEXAS TEXAS	> 1,343 * 583 547

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SECTION I - U. S. BUSINESS FIRMS  
FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
277	RICHARDSON MERRELL INC CINCINNATI OHIO	1,282 *	303	CELESCO INDUSTRIES COSTA MESA WHITE SANDS MS	1,055 * 749 305
279	AMERICAN NUCLEONICS CORP WOODLAND HILLS CALIFORNIA	1,266 *	305	SANTA FE CORP ALEXANDRIA	1,041 * 1,041
280	DIKEWOOD INDUSTRIES INC WESTWOOD CALIFORNIA ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO ROME NEW YORK	1,226 * 705 383 199 19	306	HEWLETT PACKARD CO CUPERTINO FULLERTON NORTH HOLLYWOOD PALO ALTO SAN DIEGO SANTA CLARA SANTA ROSA LOVELAND ROCKVILLE LEXINGTON DAYTON CORVALLIS KING OF PRUSSI	1,031 * 25 13 85 335 32 68 13 11 29 15 13 267 113
291	INFORMATION SPECTRUM INC CHERRY HILL NEW JERSEY ARLINGTON VIRGINIA	1,196 *			
292	BRUNSWICK CORP COSTA MESA CALIFORNIA MILFORD CONN DE LAND FLORIDA LINCOLN NEBRASKA	1,188 * 1,015 68 29 76	307	YOUNG ARTHUR & CO WASHINGTON DC	1,027 * 1,027
295	AMERICAN AIRLINES INC FORT WORTH TEXAS	1,170 * 896 276	309	R C A LABORATORIES SARNOFF RES CTR PRINCETON	1,015 * 1,016
296	WEIDLINGER ASSOCIATES CONSULT ENGR S MENLO PARK CALIFORNIA NEW YORK NEW YORK	1,160 * 62 1,098	311	DECLOG INC HUNTINGTON	1,002 * 425
297	HUGHES RESEARCH LABORATORIES MALIBU CALIFORNIA	1,157 * 1,157		MELVILLE NEW YORK DAYTON OHIO	562 13
298	J R B ASSOCIATES INC MOLEBNY VIRGINIA	1,150 * 1,150	312	SYSTEMATICS GENERAL CORP FALLS CHURCH MCLEAN	1,001 * 66 957
299	PHOTO SONICS INC BURBANK CALIFORNIA TYNDALL AFB FLORIDA	1,143 * 1,131 12	313	BATH IRON WORKS CORP BATH	1,000 * 1,003
301	ADVANCED TECHNOLOGY INC MOLEBNY VIRGINIA	1,134 * 1,135	314	D B A SYSTEMS INC INDIALANTIC MELBOURNE	997 * 35 501
302	FARRAND OPTICAL CO INC VALHALLA NEW YORK	1,130 *	315	MASSACHUSETTS COMPUTER ASSOCIATES SAN DIEGO CALIFORNIA WAKEFIELD MASS	495 * 261 794
303	PERCIPTRONICS INC WOODLAND HILLS CALIFORNIA	1,126 *	317	AERODYNE RESEARCH INC BEDFORD BURLINGTON	387 * 754 233
304	ARES INC PORT CLINTON OHIO	1,120 *	318	BEECH AIRCRAFT CORP BOULDER WICHITA	353 * 329 66
305	KAISER INDUSTRIES CORP OAKLAND CALIFORNIA	1,108 *		KANSAS WHITE SANDS MS NEW MEXICO	98
306	HYDROTRONICS FALLS CHURCH MOLEBNY VIRGINIA	1,098 * 686 614	319	METEOROLOGY RESEARCH INC ALTADENA	90 * 40 *
308	SPECTRA RESEARCH SYSTEMS INC IRVINE CALIFORNIA	1,092 *	320	AMPEX CORP EL SEGUNDO REDWOOD CITY	90 * 23 443
309	SIMULATION PHYSICS INC BEDFORD MASS BURLINGTON MASS	1,087 * 266 923	321	DELEX SYSTEMS INC SPRINGFIELD VIENNA	957 * 43
311	MCMLLEN JOHN J ASSOCIATES INC NEW YORK NEW YORK	1,076 *			917
302	SCHAFFER W J ASSOCIATES INC MARBLEHEAD MASS WAKEFIELD MASS	1,059 * 680 179	322	ULTRASYSTEMS INC IRVINE NEWPORT BEACH	335 * 443 23

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SECTION I - U. S. BUSINESS FIRMS  
FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
323	SIERRACIN CORP SYNAP	924 *	346	EAGLE PIGMER INDUSTRIES INC COLORADO SPRINGS JOPLIN	798 *
324	MAN TECH CORP ORLANDO ROCKVILLE LIVINGSTON SPRINGFIELD NORFOLK	926 *	347	CAECON INC ANNAPOLIS	140 790 *
	FLORIDA MARYLAND NEW JERSEY NEW JERSEY VIRGINIA	60 353 331 49 133		MARYLAND	658 790 *
325	ELECTROSPAC SYSTEMS INC PTCHARISON	924 *	350	ARGO SYSTEMS INC PALO ALTO	789 *
326	SEACO INC KAILUA VILLAGE	924 *	351	APPLIED SCIENCE ASSOCIATES INC VALENCIA FORT BLISS	788 *
327	ADAPTO INC GOODYEAR	915 *	352	DYNETICS INC HUNTSVILLE	785 *
330	OCEAN TECHNOLOGY INC AIRBANK	900 *	353	SYSTEMS PLANNING & ANALYSIS INC ARLINGTON	785 *
331	I P T CORP SAN DIEGO	899 *	354	PACIFICA TECHNOLOGY DEL MAR SAN DIEGO	783 *
332	DEERBERNICS INC PATRIENT RIVER FALLS CHURCH	895 *	356	FIRESTONE TIRE & RUBBER CO AKRON	759 *
	MARYLAND VIRGINIA	65 850	358	DATACOM INC FORT WALTON BE	759 *
333	S C I SYSTEMS INC HUNTSVILLE	892 *	359	EASTMAN KODAK CO ROCHESTER	749 *
336	TELEZYNE INC MOBILE HOLLISTER LOS ANGELES NORTHRIDGE PALO ALTO SAN DIEGO MUSKEGON	870 *	360	TENSOR INDUSTRIES INC FAIRFAX FALLS CHURCH	748 *
	ALABAMA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA MICHIGAN	325 164 13 196 151 197 238		VIRGINIA VIRGINIA	723 60
337	DIGITAL EQUIPMENT CORP EL SEGUNDO SAN DIEGO VANDENBERG AFB MARLBORO MAYNARD WESTMINISTER	866 *	362	COMTAL CORP ARCADIA PASADENA	745 *
	CALIFORNIA CALIFORNIA CALIFORNIA MASS MASS MASS	26 76 14 62 541 147		CALIFORNIA CALIFORNIA	154 241
339	MONSANTO RESEARCH CORP DAYTON	865 *	364	FARNSWORTH CANNON INC MCLEAN	742 *
340	PEAT MARWICK MITCHELL & CO POTOMAC WASHINGTON	860 *	366	SYNECTICS CORP GRIFFISS AFB ROME ALLISON PARK	741 *
	CALIFORNIA DC	97 743		NEW YORK NEW YORK PA	48 391 263
341	NORTH AMERICAN PHILIPS CORP BRIARCLIFF MAN	837 *	367	DRINCON CORP LA JOLLA SAN DIEGO	733 *
342	SERV AIR INC LAKEHURST	825 *	368	VISIDYNE INC BURLINGTON	733 *
343	STEIN ASSOCIATES INC WALTHAM	810 *	369	ALUMINUM CO OF AMERICA LAFAYETTE CRESSONA NEW KENSINGTON PITTSBURGH	722 *
344	DOTY ASSOCIATES ROCKVILLE	801 *	372	NOAH J. MATSON ASSOCIATES INC ALEXANDRIA FALLS CHURCH	705 *
345	MAR INC ROCKVILLE	801 *	373	PHYSICAL DYNAMICS INC LA JOLLA	697 299
	MARYLAND	801		CALIFORNIA	702 *
			374	WESTON INSTRUMENTS INC SARASOTA WRIGHT PATTERS	635 62

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## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
375	TERRA TEK INC SALT LAKE CITY UTAH	S 697 *	399	MARBRIDGE HOUSE INC WASHINGTON BOSTON	DC MASS 639 *
376	MARK RESOURCES INC EL SEGUNDO LOS ANGELES MARINA DEL REY	S 695 *	400	NIELSEN ENGINEERING & RESEARCH CO MOUNTAIN VIEW	CALIFORNIA 637 *
	CALIFORNIA	66			637
	CALIFORNIA	26			637
	CALIFORNIA	607			
377	ITT GILFILLAN INC VAN NUYS	S 693 *	431	PINSON ASSOCIATES INC AUSTIN	TEXAS 637 *
	CALIFORNIA	693			637
378	KAPPA SYSTEMS INC COLORADO SPRS WILLOW GROVE ARLINGTON	S 693 *	432	QUESTRON CORP EL SEGUNDO SAN DIEGO	CALIFORNIA 635 *
	COLORADO	256			629
	PA	20			
	VIRGINIA	607			
379	PHYSICAL SCIENCES CORP WAKEFIELD MORRIN	S 692 *	403	GEODYNAMICS CORP SANTA BARBARA	CALIFORNIA 634 *
	MASS	345			634
	MASS	347			
380	AERONAUTICAL RESEARCH ASSOCIATES PORT REPUBLIC PRINCETON	S 685 *	404	EDMAC ASSOCIATES INC ROCHESTER	NEW YORK 623 *
	NEW JERSEY	15			623
	NEW JERSEY	670			
381	E M F CORP SEATTLE	S 685 *	405	TELEDYNE ISOTOPES TIMONIUM WESTWOOD	MARYLAND NEW JERSEY 623 *
	WASHINGTON	685			623
382	GENERAL PHYSICS CORP COLUMBIA	S 679 *	407	ESSEX CORP SAN DIEGO WHITE SANDS NM	CALIFORNIA 623 *
	MARYLAND	679			623
383	OCEAN DATA SYSTEMS INC MONTEREY ROCKVILLE	S 673 *	408	WHITE SANDS NM ALEXANDRIA	NEW MEXICO VIRGINIA 623 *
	CALIFORNIA	35			623
	MARYLAND	635			
384	ENERGY RESEARCH CORP BETHEL DANbury	S 671 *	410	KEYSTONE COMPUTER ASSOCs INC FORT WASHINGTON PA	PA 622 *
	CONN	370			622
	CONN	301			
385	RALSTON PURINA CO ST LOUIS	S 663 *	411	TELEDYNE LEWISBURG LEWISBURG	TENNESSEE 621 *
	MISSOURI	663			621
386	SPECTRONICS CORP RICHARDSON	S 663 *	412	APPLIED DATA RESEARCH INC PRINCETON VIENNA	NEW JERSEY VIRGINIA 619 *
	TEXAS	663			619
387	DIGITAL COMMUNICATIONS CORP GAITHERSBURG	S 660 *	413	CONSOLIDATED ANALYSIS CENTER INC WASHINGTON ARLINGTON	DC VIRGINIA 613 *
	MARYLAND	660			613
388	TRACOR MARINE INC PORT EVERGLADE	S 659 *	414	ROME RESEARCH CORP GRIFFISS AFB ROME	NEW YORK NEW YORK 612 *
	VIRGIN IS	602			612
	FLORIDA	257			
389	WAGNER DANIEL H ASSOCIATES INC PAULI	S 654 *	416	TECOLOTE RESEARCH INC SANTA BARBARA	CALIFORNIA 610 *
	PA	654			610
390	INDUSTRIAL R&D TEST LABORATORIES NORTHBROOK	S 650 *	418	AGBABIAN ASSOCIATES EL SEGUNDO	CALIFORNIA 604 *
	ILLINOIS	650			604
391	COURSEWARE INC SAN DIEGO PROVO	S 644 *	419	AMERICAN ELECTRONIC LABS INC WALL TOWNSHIP COLMAR LANSDALE MONTGOMERYVILLE FALLS CHURCH	NEW JERSEY PA PA PA VIRGINIA 602 *
	CALIFORNIA	585			602
	UTAH	63			
392	UNI SYSTEMS INC VENTURA	S 643 *	420	P E SYSTEMS INC FAIRFAK SPRINGFIELD	VIRGINIA VIRGINIA 603 *
	CALIFORNIA	643			603
393	SUSQUEHANNA CORP ALEXANDRIA	S 645 *	422	CALIFORNIA RESEARCH & TECHNOLOGY WOODLAND HILLS	CALIFORNIA 593 *
	VIRGINIA	645			593
394	PULSEPOWER SYSTEMS INC SAN CARLOS	S 640 *	423	HUMAN SCIENCES RESEARCH INC MCLEAN	VIRGINIA 593 *
	CALIFORNIA	640			593

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S = SMALL BUSINESS

## SECTION I - U. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
425	SHIP SYSTEMS INC SAN DIEGO	593 *	451	FREQUENCY & TIME SYSTEMS INC DAVENS	539 *
426	VREDENBURG R H & CO MCLEAN	592 *	452	NETWORK ANALYSIS CORP GLEN COVE	532 *
427	RAYCOMM INDUSTRIES INC FREEHOLD	583 *	453	HYDRAUTICS INC LAUREL	531 *
429	LIFE SYSTEMS INC CLEVELAND	585 *	454	ENVIRONMENTAL RESEARCH TECHNOLOGY CONCORD MASS	525 *
430	BIO MED INC SILVER SPRING	585 *	455	UNION CARBIDE CORP INDIANAPOLIS	524 *
431	SEDCO SYSTEMS INC HELVELLE	584 *		ROUND BROOK	51
432	COLUMBIA RESEARCH CORP PANAMA CITY	583 *		NEW YORK	39
	ARLINGTON	30		TARRYTOWN	150
	FALLS CHURCH	261		PARMA	173
		292		BENNINGTON	87
433	TECHPLAN CORP MAPLE SHADE	580 *	456	CANYON RESEARCH GROUP INC CANOSA PARK	522 *
	RAYLEYS CRISSR	205		WESTLAKE VILLA	51
434	SPACE VECTOR CORP NORTH RINDGE	578 *	457	PACIFIC ANALYSIS CORP HONOLULU CITY	512 *
435	JNIFLITE INC BELLEVUE	576 *	458	GENERAL INSTRUMENT CORP HICKSVILLE	511 *
436	ANALYSIS & COMPUTER SYSTEMS INC BEDFORD	575 *	459	XBYION CORP CEDAR KNOLLS	510 *
	MASS	575		MORRISTOWN	114
437	P R C TECHNICAL APPLICATIONS HUNTSVILLE	575 *	460	RYCKMAN EDGERLEY TOMLINSON & ASSOC ST LOUIS	509 *
	ALABAMA	201		MISSOURI	195
	MCLEAN	201	461	AEROFLEX LABORATORIES INC LONG ISLAND CI	508 *
438	HELIK TECHNOLOGY CORP CAMBRIDGE	572 *		PLAINVIEW	57
	MASS	151		NEW YORK	113
	WALTHAM	611	462	COULTER INFORMATION SYSTEMS INC BEDFORD	507 *
	MASS			MASS	500
439	MECHANICS RESEARCH INC LOS ANGELES	567 *	463	DYNELL ELECTRONICS CORP MELVILLE	506 *
	CALIFORNIA	137		NEW YORK	504
	SANTA MONICA	219	464	TELEPHONICS	499 *
	CALIFORNIA			HUNTINGTON	499
	MCLEAN	211	465	I T T ARCTIC SERVICES BARROW VILLAGE	495 *
440	IMAGE GRAPHICS INC FAIRFIELD	566 *		ALASKA	495
	CONN	566	466	PARANO DEVELOPMENT CORP GRAND JUNCTION	493 *
442	HUMAN FACTORS RESEARCH INC GOLETA	559 *		COLORADO	493
	CALIFORNIA	384	467	OMNI SPECTRA INC TEMPE	492 *
	SANTA BARBARA	185		ARIZONA	492
444	LEONACE R&G & IMPORT CO NEWARK	555 *	468	SYSTEM ENHANCEMENT SERVICES INC ARLINGTON	491 *
	NEW JERSEY	555		VIRGINIA	491
446	I T T C O	569 *	469	G R D CO	490 *
	COMPTON	37		WARMINGSTER	490
	GARDENA	511	470	CHANDLER EVANS CORP WEST HARTFORD	489 *
448	WHEELERS INDUSTRIES INC WASHINGTON	566 *		CONN	489
	DC	566	471	AIRESEARCH MFG CO OF ARIZONA PHOENIX	487 *
449	KINTON INC ALEXANDRIA	563 *		ARIZONA	487
	VIRGINIA	563	472		487
450	UNDERSEA RESEARCH CORP FALLS CHURCH	561 *			487
	VIENNA	657			487
	VIRGINIA	96			487

\* = minus amount (cancellations exceed new awards)  
S = small business

## SECTION I - J. S. BUSINESS FIRMS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
477	TECHNITROL INC PHILADELPHIA PA	\$ <u>486</u> *			
478	STERLING WALTER & INC ORANGE RIDGECREST NORFOLK	CALIFORNIA CALIFORNIA VIRGINIA	S <u>486</u>	129 295 55	
479	SUTRON CORP ARLINGTON	VIRGINIA	S <u>479</u> *	679	
480	MERIDIAN GROUP SAN DIEGO	CALIFORNIA	S <u>479</u> *	679	
481	RAYMOND ENGINEERING INC MIDDLETOWN	CONN	S <u>475</u> *	675	
482	UNITECH INC AUSTIN	TEXAS	S <u>472</u> *	672	
483	HERNER CO WASHINGTON DC	DC	S <u>469</u> *	669	
484	TRIAD INC BALTIMORE	MARYLAND	S <u>468</u> *	668	
485	MILLMASTER ONYX CORPORATION NEWARK	NEW JERSEY	S <u>466</u> *	666	
486	DAYRON CORP ORLANDO	FLORIDA	S <u>460</u> *	660	
488	EDUCATIONAL COMPUTER CORP ORLANDO	FLORIDA	S <u>451</u> *	651	
489	SUPERIOR STEEL DOOR & TRIM CO INC COLLEGE POINT	NEW YORK	S <u>451</u> *	651	
491	AMERICAN COMMUNICATIONS CORP ANNANDALE	VIRGINIA	S <u>448</u> *	648	
492	BIRD ENGINEERING RESEARCH ASSOC VIENNA	VIRGINIA	S <u>448</u> *	648	
494	WHITAKER CORP CHATSWORTH	CALIFORNIA	S <u>446</u> *	646	
495	SPACE MICROWAVE LABORATORIES INC SANTA ROSA	CALIFORNIA	S <u>443</u> *	643	
496	41 SHEAR CORP TORRANCE	CALIFORNIA	S <u>442</u> *	642	
497	MICROCOM CORP WARMINSTER PA	PA	S <u>441</u> *	641	
498	BALDWIN ELECTRONICS INC LITTLE ROCK	ARKANSAS	S <u>440</u> *	640	
499	SHOCK HYDRODYNAMICS INC NORTH HOLLYWOOD	CALIFORNIA	S <u>440</u> *	640	
	SHERMAN OAKS	CALIFORNIA		168	
500	MECHANICAL TECHNOLOGY INC LATHAM	NEW YORK	S <u>436</u> *	636	
				7,066,982	

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

SECTION II - NON-PROFIT INSTITUTIONS  
FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
16	JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND SCAGGSVILLE MARYLAND	<u>117,671</u> *	.	BATTELLE MEMORIAL INSTITUTE FORT BELVOIR VIRGINIA FORT EUSTIS VIRGINIA FORT MONROE VIRGINIA RICHLAND WASHINGTON SEATTLE WASHINGTON	23 22 103 233 73
17	MASSACHUSETTS INSTITUTE TECHNOLOGY CAMBRIDGE MASS LEKINTON MASS	<u>108,216</u> *	.	.	
28	MITRE CORP BEDFORD MASS MCLEAN VIRGINIA	<u>57,377</u> *	.	80 ROCHESTER UNIVERSITY OF ROCHESTER NEW YORK ARLINGTON VIRGINIA	<u>11,748</u> * 3,165 6,682
30	CHARLES STARK DRAPER LABS INC CAMBRIDGE MASS WRIGHT PATTERS OHIO	<u>45,021</u> * 46,973 68	.	.	
43	AEROSPACE CORP EL SEGUNDO CALIFORNIA	<u>28,668</u> *	.	43 TEXAS UNIVERSITY OF HOLLOWAY AFB NEW MEXICO ARLINGTON TEXAS AUSTIN TEXAS BROOKS AFB TEXAS DALLAS TEXAS EL PASO TEXAS GALVESTON TEXAS RICHARDSON TEXAS SAN ANTONIO TEXAS	<u>11,494</u> * 273 115 1,4326 104 127 167 43 43
51	S R I INTERNATIONAL HUNTSVILLE ALABAMA MENLO PARK CALIFORNIA STANFORD CALIFORNIA ARLINGTON VIRGINIA	<u>23,106</u> * 1,181 21,255 58 620	.	.	
54	CALIFORNIA UNIVERSITY OF BERKELEY CALIFORNIA DAVIS CALIFORNIA IRVINE CALIFORNIA LA JOLLA CALIFORNIA LOS ANGELES CALIFORNIA RIVERSIDE CALIFORNIA SAN DIEGO CALIFORNIA SAN FRANCISCO CALIFORNIA SANTA BARBARA CALIFORNIA SANTA CRUZ CALIFORNIA SEPULVEDA CALIFORNIA WRIGHT PATTERS OHIO	<u>19,992</u> * 6,489 230 259 6,345 5,717 182 3,369 398 472 57 42 2,434	.	88 ALASKA UNIVERSITY OF BARRON VILLAGE ALASKA COLLEGE VILLAG ALASKA FAIRBANKS CITY ALASKA	<u>3,404</u> * 4,563 47 994
57	RAND CORP SANTA MONICA CALIFORNIA	<u>16,399</u> *	.	59 GEORGIA TECH RESEARCH INSTITUTE BOCA RATON FLORIDA ATLANTA GEORGIA	<u>3,163</u> * 45 4,212
68	INSTITUTE FOR DEFENSE ANALYSIS PRINCETON NEW JERSEY ARLINGTON VIRGINIA	<u>16,676</u> * 2,917 11,757	.	90 DAYTON UNIVERSITY OF WILLIAMS AFB ARIZONA EDWARDS AFB CALIFORNIA KIRTLAND AFB NEW MEXICO DAYTON OHIO WRIGHT PATTERS OHIO	<u>4,261</u> * 87 31 1,243 2,404 4,442
69	ITT RESEARCH INSTITUTE CHICAGO ILLINOIS ROCK ISLAND ILLINOIS ANNAPOLIS MARYLAND GRIFFISS AFB NEW YORK WRIGHT PATTERS OHIO	<u>16,570</u> * 5,066 19 10,666 761 00	.	96 STANFORD UNIVERSITY MENLO PARK CALIFORNIA STANFORD CALIFORNIA	<u>3,753</u> * 151 8,603
75	BATTELLE MEMORIAL INSTITUTE GUNTER AFB ALABAMA HUNTSVILLE ALABAMA REDSTONE ARSEN ALABAMA CULVER CITY CALIFORNIA REDONDO BEACH CALIFORNIA SAN DIEGO CALIFORNIA ROCK ISLAND ILLINOIS ABERDEEN PROV MARYLAND ADELPHI MARYLAND NATICK MASS ANN ARBOR MICHIGAN WARREN MICHIGAN DOVER NEW JERSEY FORT MONMOUTH NEW JERSEY WHITE SANDS MS NEW MEXICO DURHAM NCAR COLUMBUS OHIO FORT SILL OKLAHOMA FORT SAM HOUST TEXAS DUGWAY UTAH ALEXANDRIA VIRGINIA	<u>12,573</u> * 29 236 292 15 31 11 51 73 11 31 36 701 29 189 58 261 9,822 24 18 11 12	.	98 SOUTHERN CALIFORNIA UNIVERSITY OF LOS ANGELES CALIFORNIA 99 WASHINGTON UNIVERSITY OF BOTHELL WASHINGTON SEATTLE WASHINGTON 109 NEW MEXICO STATE UNIVERSITY LAS CRUCES NEW MEXICO UNIVERSITY PARK NEW MEXICO WHITE SANDS MS NEW MEXICO	<u>3,705</u> * 3,705 3,459 * 20 4,459 2,442 * 3,483 12 3,461
111	PENNSYLVANIA STATE UNIVERSITY STATE COLLEGE PA UNIVERSITY PARK PA	5,551 * 5,103 4,431	.	.	
112	WOODS HOLE OCEANOGRAPHIC INST WOODS HOLE MASS	2,346 * 2,340	.	.	
115	ENVIRONMENTAL RSRCH INST OF MICH ANN ARBOR MICHIGAN YPSILANTI MICHIGAN	2,275 * 2,152 988	.	.	
119	ILLINOIS UNIVERSITY OF CHAMPAIGN ILLINOIS CHICAGO ILLINOIS URBANA ILLINOIS	2,027 * 43 212 4,770	.	.	

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

## SECTION II - NON-PROFIT INSTITUTIONS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
130	SOUTHWEST RESEARCH INSTITUTE SAN ANTONIO, TEXAS	4,576 *	209	GEORGIA INSTITUTE TECH ATLANTA, GEORGIA	2,122 *
136	NEW MEXICO UNIVERSITY OF ALBUQUERQUE, NEW MEXICO	4,345 *	213	SOUTHERN RESEARCH INSTITUTE BIRMINGHAM, ALABAMA	2,033 *
137	COLUMBIA UNIVERSITY NEW YORK PALISADES, NEW YORK	4,243 *	217	NEW MEXICO INSTITUTE MINING & TECH SOCORRO, NEW MEXICO	2,012 *
144	ANALYTIC SERVICES INC WILLOW GROVE, PA FALLS CHURCH, VIRGINIA	3,761 *	220	MIDWEST RESEARCH INSTITUTE KANSAS CITY, MISSOURI WRIGHT PATTERS, OHIO	1,910 *
151	CARNEGIE MELLON UNIVERSITY PITTSBURGH, PA	3,676 *	227	MIAMI UNIVERSITY OF CORAL GABLES, FLORIDA MIAMI, FLORIDA	1,842 *
155	RIVERSIDE RESEARCH INSTITUTE NEW YORK, NEW YORK	3,530 *	229	OREGON STATE UNIVERSITY CORVALLIS, OREGON	1,844 *
163	MICHIGAN UNIVERSITY OF ANN ARBOR, MICHIGAN PONTIAC, MICHIGAN	3,538 *	231	YALE UNIVERSITY NEW HAVEN, CONNECTICUT	1,816 *
164	ARIZONA UNIVERSITY OF IGLOO MARYS IG, ALASKA TUCSON, ARIZONA DOVER, NEW JERSEY	2,930 *	232	SYRACUSE UNIVERSITY ROME, NEW YORK SYRACUSE, NEW YORK	1,792 *
172	UTAH STATE UNIVERSITY LOGAN, UTAH	2,843 *	237	CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA, CALIFORNIA	1,752 *
176	HAWAII UNIVERSITY OF Honolulu CITY, HAWAII	2,735 *	240	STEVENS INSTITUTE OF TECHNOLOGY HOBOKEN, NEW JERSEY	1,741 *
177	OHIO STATE UNIV RESEARCH FOUNDATION COLUMBUS, OHIO WRIGHT PATTERS, OHIO	2,703 *	247	GEORGE WASHINGTON UNIVERSITY WASHINGTON, DC	1,611 *
179	PURDUE RESEARCH FOUNDATION LAFAYETTE, INDIANA WEST LAFAYETTE, INDIANA	2,701 *	259	SAN DIEGO STATE COLLEGE FOUNDATION SAN DIEGO, CALIFORNIA	1,504 *
187	HARVARD UNIVERSITY CAMBRIDGE, MASS	2,552 *	261	OKLAHOMA STATE UNIVERSITY OF STILLWATER, OKLAHOMA	1,493 *
194	PENNSYLVANIA UNIVERSITY OF WASHINGTON, DC PHILADELPHIA, PA	2,539 *	262	NEW YORK POLYTECHNIC INSTITUTE BROOKLYN, NEW YORK NEW YORK, NEW YORK	1,331 *
197	PALISADES GEOPHYSICAL INSTITUTE MIAMI, FLORIDA BLAUVELT, NEW YORK	2,459 *	264	NEW YORK STATE UNIV RESEARCH FOUND ALBANY, NEW YORK BUFFALO, NEW YORK STONY BROOK, NEW YORK	1,406 *
199	WISCONSIN UNIVERSITY OF MADISON, WISCONSIN	2,387 *	265	CORNELL UNIVERSITY ITHACA, NEW YORK NEW YORK, NEW YORK	1,258 *
200	HUMAN RESOURCES RESEARCH ORGN CARMEL BY THE SEA, CALIFORNIA FORT DODGE, CALIFORNIA MONTEREY, CALIFORNIA LOUISVILLE, KENTUCKY FORT BLISS, TEXAS FORT WOOD, TEXAS ALEXANDRIA, VIRGINIA	2,296 *	270	BOSTON COLLEGE CHESTNUT HILL, MASS NEWTON, MASS WESTON, MASS	1,194 *
207	MARYLAND UNIVERSITY OF BALTIMORE, MARYLAND COLLEGE PARK, MARYLAND	2,136 *	278	FLORIDA UNIVERSITY GAINESVILLE, FLORIDA	1,247 *
		366	283	SYRACUSE RESEARCH CORP SYRACUSE, NEW YORK	1,166 *
		1,790	284	PRINCETON UNIVERSITY PRINCETON, NEW JERSEY	1,181 *
			297	NEW YORK UNIVERSITY NEW YORK, NEW YORK	1,092 *
					1,092

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## SECTION II - NON-PROFIT INSTITUTIONS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
299	COLORADO JUNIVERSITY BOULDER DENVER	1,399 *	396	SOUTHEASTERN CTR ELECT ENGR EDUC AUBURN	645 *
	COLORADO	966		ALABAMA	433
	COLORADO	123		WRIGHT PATTERS	212
304	LOUISIANA STATE UNIVERSITY OF BATON ROUGE	1,054 *	406	FLORIDA TECHNOLOGICAL UNIVERSITY ORLANDO	627 *
	NEW ORLEANS	772		FLORIDA	627
	LOUISIANA	282			
309	CATHOLIC JUNIVERSITY OF AMERICA WASHINGTON	1,019 *	410	WRIGHT STATE UNIVERSITY DAYTON	621 *
	DC	1,019		OHIO	458
310	NORTHEASTERN UNIVERSITY BOSTON	1,010 *		WRIGHT PATTERS	131
	MASS	1,010		OHIO	32
316	DENVER UNIVERSITY OF DENVER	993 *	415	CASE WESTERN RESERVE JUNIVERSITY CLEVELAND	612 *
	COLORADO	993		OHIO	612
324	RHODE ISLAND UNIVERSITY OF KINGSTON	913 *	417	MISSOURI UNIVERSITY OF COLUMBIA	607 *
	RI	913		ROLLA	384
329	WENTWORTH INSTITUTE BOSTON	907 *	421	IOWA JUNIVERSITY OF IOWA CITY	598 *
	MASS	907		IOWA	598
334	MINNESOTA UNIVERSITY OF MINNEAPOLIS	885 *	424	NORTHWESTERN UNIVERSITY EVANSTON	593 *
	ST PAUL	752		ILLINOIS	593
	MINNESOTA	133			
335	AMERICAN UNIVERSITY WASHINGTON	882 *	428	BROWN UNIVERSITY PROVIDENCE	585 *
	DC	882		RI	585
338	AUBURN UNIVERSITY AUBURN	851 *	441	MASSACHUSETTS UNIVERSITY OF AMHERST	561 *
	ALABAMA	851		MASS	475
				WORCESTER	111
344	RESEARCH TRIANGLE INSTITUTE TRIANGLE PARK	790 *	443	GEORGETOWN UNIVERSITY WASHINGTON	552 *
	NCAR	790		DC	552
349	VIRGINIA UNIVERSITY OF CHARLOTTESVILLE	790 *	445	REGIS COLLEGE WESTON	549 *
	VIRGINIA	790		MASS	549
355	TENNESSEE UNIVERSITY OF KNOXVILLE	766 *	447	HUDSON INSTITUTE CROTON ON HUDS	548 *
	TENNESSEE	622		NEW YORK	548
	MEMPHIS	55			
	TULLAHOMA	66	457	VIRGINIA POLYTECHNIC INSTITUTE BLACKSBURG	512 *
	TENNESSEE			VIRGINIA	502
				LANGLEY AFB	14
357	CINCINNATI UNIVERSITY OF CINCINNATI	757 *	458	PALISADES INSTITUTE NEW YORK	514 *
	OHIO	389		NEW YORK	514
	WRIGHT PATTERS	368			
361	TEXAS A & M UNIVERSITY COLLEGE STATION	766 *	462	NORTH CAROLINA UNIVERSITY OF CHAPEL HILL	503 *
	TEXAS	766		NCAR	405
				WILMINGTON	100
363	BOSTON UNIVERSITY BOSTON	753 *	463	SOUTHERN METHODIST UNIVERSITY OF DALLAS	502 *
	MASS	715		TEXAS	522
	CHESTNUT HILL	25			
365	UTAH UNIVERSITY OF SALT LAKE CITY	742 *	476	SPEECH COMMUNICATIONS RESEARCH LAB SANTA BARBARA	495 *
	UTAH	762		CALIFORNIA	495
371	FLORIDA STATE UNIVERSITY TALLAHASSEE	711 *	487	EMMANUEL COLLEGE BOSTON	457 *
	FLORIDA	711		MASS	457
385	RENSSELAER POLYTECHNIC INSTITUTE TROY	667 *	490	WAYNE STATE UNIVERSITY DETROIT	424 *
	NEW YORK	667		MICHIGAN	450
386	DUKE UNIVERSITY DUKE	664 *	493	COLORADO STATE UNIVERSITY FORT COLLINS	442 *
	NCAR	664		COLORADO	442
391	PITTSBURGH UNIVERSITY OF PITTSBURGH	657 *			
	PA	657			

683,777

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

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## SECTION III - FOREIGN CONTRACTORS

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
161	CANADIAN COMMERCIAL CORP CANADA	4,056 *			
202	REDIFON FLIGHT SIMULATION LTD UN KINGDOM	2,259 *			
370	ROYAL NORWEGIAN CNCL SONYFC IND RS NORWAY	713 *			
		7,028			

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

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## SECTION IV - U. S. GOVERNMENT AGENCIES

FISCAL YEAR 1977

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
120	NATIONAL ACADEMY OF SCIENCES JAPAN	5,013 *			
	WASHINGTON DC	15			
	ABERDEEN PROV MARYLAND	4,686			
	DOVER NEW JERSEY	290			
		22			
190	UNITED STATES SMALL BUSINESS ADMIN	2,698 *			
	SUNNYVALE CALIFORNIA	336			
	VANDENBERG AFB CALIFORNIA	258			
	WASHINGTON DC	210			
	BELTSVILLE MARYLAND	46			
	CAMBRIDGE MASS	664			
	FORT WASHINGTON PA	778			
	ALEXANDRIA VIRGINIA	108			
	MCLEAN VIRGINIA	100			
204	UNITED STATES ENERGY DEPT	2,226 *			
	LIVERMORE CALIFORNIA	611			
	OAKLAND CALIFORNIA	870			
	ARGONNE ILLINOIS	725			
	OAK RIDGE TENNESSEE	20			
236	UNITED STATES COMMERCE DEPT	1,756 *			
	BOULDER COLORADO	366			
	WASHINGTON DC	1,134			
	GAITHERSBURG MARYLAND	110			
	ROCKVILLE MARYLAND	39			
	SEATTLE WASHINGTON	107			
245	UNITED STATES NATL AERO SPACE AGY	1,660 *			
	RIDGELEY WVA	1,640			
290	SMITHSONIAN INSTITUTION	1,137 *			
	WASHINGTON DC	753			
	CAMBRIDGE MASS	384			
409	NATIONAL SCIENCE FOUNDATION	621 *			
	WASHINGTON DC	621			
		16,491			

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

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